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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/806,584	03/23/2004	Laurence N. Bascom	HT3985USNA	2245	
23906	7590 07/31/2006		EXAMINER		
	NT DE NEMOURS AND	COMPANY	RUDDOCK, ULA CORINNA		
	'ENT RECORDS CENTER ILL PLAZA 25/1128		ART UNIT	PAPER NUMBER	
4417 LANCA	ASTER PIKE		1771		
WILMINGT	ON, DE 19805		DATE MAILED: 07/31/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
	10/806,584	BASCOM ET AL.	
Office Action Summary	Examiner	Art Unit	
	Ula C. Ruddock	1771	
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with the o	correspondence addre	ss
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailine earned patent term adjustment. See 37 CFR 1.704(b).	OATE OF THIS COMMUNICATION 136(a). In no event, however, may a reply be tir will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE	N. nely filed the mailing date of this comm D (35 U.S.C. § 133).	
Status			
 1) Responsive to communication(s) filed on 19 / 10 2a) This action is FINAL. 2b) This 3) Since this application is in condition for allowed closed in accordance with the practice under the condition of the condit	s action is non-final. ance except for formal matters, pro		erits is
Disposition of Claims			
4) Claim(s) 1-12 is/are pending in the application 4a) Of the above claim(s) is/are withdra 5) Claim(s) is/are allowed. 6) Claim(s) 1-12 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or claim(s) are subject to restriction and/or claim(s) are subjected to by the Examine 10) The drawing(s) filed on is/are: a) according to a control of the drawing(s) filed on is/are: a) according to a control of the drawing(s) filed on is/are: a) according to a control of the drawing(s) filed on is/are: a) according to a control of the drawing(s) filed on is/are: a) according to a control of the drawing(s) filed on is/are: a) according to a control of the drawing(s) filed on is/are: a) according to a control of the drawing(s) filed on is/are: a) according to a control of the drawing(s) filed on is/are: a) according to a control of the drawing(s) filed on is/are: a) according to a control of the drawing to a control of the drawing(s) filed on is/are: a) according to a control of the drawing(s) filed on is/are: a) according to a control of the drawing(s) filed on is/are: a) according to a control of the drawing(s) filed on is/are: a) according to a control of the drawing(s) filed on is/are: a) according to a control of the drawing to a control of the d	or election requirement.	Examiner.	
Applicant may not request that any objection to the	e drawing(s) be held in abeyance. Se	e 37 CFR 1.85(a).	
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the E			
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documen 2. Certified copies of the priority documen 3. Copies of the certified copies of the priority application from the International Burea * See the attached detailed Office action for a list	ts have been received. Its have been received in Applicationity documents have been received in Application (PCT Rule 17.2(a)).	on No ed in this National Sta	ge
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date 3/22/06 & 5/19/06	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:		2)

Application/Control Number: 10/806,584

Art Unit: 1771

Page 2

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

- 1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on May 19, 2006, has been entered.
- 2. The Examiner has carefully considered Applicant's amendment and accompanying remarks. The previous prior art rejections have been withdrawn. However, after an updated search, additional prior art has been found which renders the invention as currently claimed unpatentable for reasons herein below.
- 3. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Response to Amendment

4. The declaration under 37 CFR 1.132 filed May 19, 2006, is sufficient to overcome the rejection of claims 1-12 based upon Erb, Jr. et al. (US 2002/0182967) and Corner (US 2003/0232560).

Double Patenting

5. Claims 1-12 are provisionally rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1-20 of copending Application No. 10996897.

Application/Control Number: 10/806,584 Page 3

Art Unit: 1771

Although the conflicting claims are not identical, they are not patentably distinct from each other because the claims are obvious variants over one another.

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

Applicant argues that 10/996897 requires ridges and grooves. It is the Examiner's position that this modification is an obvious variant over the claims of the present invention. Rejection is maintained.

6. Claims 1-12 are provisionally rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1-20 of copending Application No. 11/023153. Although the conflicting claims are not identical, they are not patentably distinct from each other because the claims are obvious variants over one another.

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

Applicant argues that 11/023153 requires a liquid impermeable polymeric layer. It is the Examiner's position that this additional layer is an obvious variant over the claims of the present invention. Rejection is maintained.

Claim Rejections - 35 USC § 103

7. Claims 1-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hainsworth et al. (US 6,955,193) in view of Erb, Jr. et al. 9US 2002/0182967) and Matsuda et al. (US 5,316,834) and Assink et al. (US 2004/0028958).

Art Unit: 1771

Hainsworth et al. disclose a fire resistant textile material. The material comprises a woven faced fabric comprising m-aramid fibers and a woven back fabric of low thermal shrinkage paramid fibers (abstract). The low shrinkage fibers are preferably disposed behind the face fabric (col 3, ln 10-11). The low thermal shrinkage fibers form an interwoven backing fabric on the back of the face fabric (col 3, ln 18-20). It should be noted that the Examiner is equating Hainsworth's low thermal shrinkage p-aramid fibers to Applicant's heat-resistant organic fibers and Hainsworth's woven faced fabric to the open mesh scrim of the present invention. The thickness of the fabric is increased from 0.7 mm before exposure to 4.3 mm after exposure, i.e. fabric increases its thickness between 2 and 10 times (col 6, ln 17-20 and claim 18). Hainsworth et al. disclose the claimed invention but fail to disclose that the woven fabric is specifically a scrim, that the p-aramid fibers are crimped, and that the p-aramid fibers are held in a compressed state by a thermoplastic binder.

Erb Jr. et al. disclose a fire blocking material comprising nonwoven fabric including paraaramid fibers (abstract) and a polyester woven scrim [0017]. The nonwoven fabric layer is generally supported by at least one scrim [0027]. In some embodiments, the fabric may incorporate multiple layers of scrim material and multiple nonwoven fabric layers [0027].

Matsuda et al. (US 5,316,834) disclose a flame-resistant, fiber-reinforced thermoplastic sheet (col 4, ln 43-46). A preferred organic heat-resistant fiber is para-aramid fiber (col 5, ln 39-41). The heat-resistant fiber is crimped to a web from to impart the fiber structure material with a high fiber-entangling strength (col 5, ln 64-67).

Assink et al. (US 2004/0028958) disclose a fire-resistant batt and panel that comprises fiber and binder material (abstract). The fiber component can include aramid fibers [0020]. The binder component acts as an adhesive and binder to bond the fibers into a relatively rigid configuration [0022]. A preferred binder can be polyester in a fibrous form or a particle (i.e. powder) form [0022].

Page 5

It would have been obvious to have made the woven fabric of Hainsworth be the scrim of Erb, Jr. et al., motivated by the desire to create a fire resistant fabric that has strength yet is lightweight. It also would have been obvious to have used Matsuda's crimping process on the paramid fibers of Hainsworth et al., Jr. et al. and Assink et al., motivated by the desire to create a fabric that is lightweight and has excellent mechanical properties. Finally, it would have been obvious to have used Assink's polyester fiber binder or polyester powder binder on the fabric of Hainsworth et al. and Matsuda et al., motivated by the desire to create a fabric having greater strength and load-bearing properties.

Response to Arguments

8. Applicant's arguments with respect to claims 1-12 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ula C. Ruddock whose telephone number is 571-272-1481. The examiner can normally be reached on Monday-Thursday.

Application/Control Number: 10/806,584

Art Unit: 1771

Page 6

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Terrel H. Morris can be reached on 571-272-1478. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

ucruel

Ua Kuddock

Ula C. Ruddock

Primary Examiner

Tech Center 1700